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Applicant: A. Christian Tahan Examiner: Robert W. Morgan  
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Title: Method Of Using a Global Server For Providing Patient Medical Histories To Assist In the Delivery Of Emergency Medical Services  
Atty. Docket: XWRLD-102

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Commissioner of Patents & Trademarks, U. S. Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450 on FEB 28, 2007

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SUPPLEMENTAL RULE 131 DECLARATION

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Now comes A. Christian Tahan and deposes and says:

1. That I am submitting this Supplemental Rule 131 Declaration to submit evidence that from July 22, 1996 until the constructive reduction to practice of the subject invention on February 15, 2001, that I did not abandon, suppress or conceal the claimed invention.
2. That as can be seen in Appendix A hereto, I kept a journal indicating my progress towards a constructive reduction to practice, which dates indicate activity leading to the constructive reduction to practice on a month-by-month basis.
3. That my computer logs are the way I documented my progress from the conception of the invention to the constructive reduction to practice.

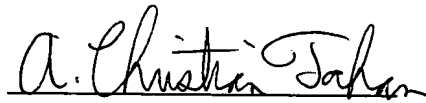
4. That from the conception of the invention to the Schoenberg filing date of February 22, 2000, Appendix A shows ample evidence of diligence in terms of a continuing project that was not abandoned, suppressed or concealed.

5. That the evidence of Appendix A also indicates diligence from July 22, 1996 through the filing date of the Zak et al. reference, namely April 26, 2000.

6. That although not required to divulge the conception date of the present invention, Applicant has done so to show that from the conception date of July 22, 1996 and through the constructive reduction to practice, not only was the project not abandoned, strides were attempted throughout the entire period of time, with the evidence of Appendix A indicating no intention to abandon, suppress or conceal the invention, but rather the opposite, a continuing project.

Further deponent sayeth not.

I further declare that all the statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

  
A. Christian Tahan

Date: February 26, 2007

## APPENDIX A

AUG5

August 05, 1996

I am extremely bothered that I am not well-prepared for the MCAT. But I cannot seem to motivate myself.

I am guessing that this will be a periodic diary since I do not have much time to input ideas and it is too time consuming.

I reviewed the last entry related to the technology ideas. I do not think the tennis ball idea or the idea related to tennis is that great. So, I will likely forget about it. I enjoyed playing tennis with Mom. I do not know why we do not keep doing it. I always have ideas. The good idea that I had from last time about the patient record I should think about more.

But I mentioned an idea about translation in Japanese. The idea of having a translation system with the software somewhere in the network is a good idea. Most portable computers are terrible, bad screens, low memory, pretty basic. So, I do not know if you could see the patient record and have the translation done on the unit at the same time. It would probably take you forever. But if you had the translation somewhere else, then you could probably do many things.

For example, you could have your portable computer, maybe in the future they will be better to carry, pocket-size, whatever.

If you were connected to the cordless system or network, you could have translations even of voice.

I remember once I had to try to speak French to a patient in the emergency room where I volunteered that did not speak English.

If you had the portable computer, the person could speak in it, the communication could be translated in the network, and the person needing the english could simply read it on his or her computer. So, you would have the input device, the network, the translation software on the network so that you could use a portable device with the network, you can input voice or even text on the portable device if the person for example is deaf and only knows Spanish, and the device thus could receive sound or text from the network. Since you are using a network, you could have multiple people on it. So, people can speak different languages or the same language, speak into their computers, the network could translate the languages, and present the information as text in a different language or in the same language or speech (a synthetic computer voice reading the text). So, you could receive both text and speech simultaneously. Perhaps the receiver could decide on the language he wanted the text to be translated to.

So, a person in one country could be speaking in english in their computer, it does not have to be portable, the voice is sent as some sort of computer file maybe to the network through the world wide web, the translation and editing of the file occurs, then a person in a different country can review it on his different computer in a different language since the original speech or text was translated in the network and the receiver selected the language. But the same user could receive the translation to his same computer. For example, the person could be deaf and mute and could use a portable computer, and the voice and language of the person speaking in the computer could be translated to text by the software in the network so that the deaf person can see it on his computer. Perhaps the other person is french and blind, so the deaf could input text, and the computer will speak it using the translation over the network. The portable computer would receive the translated file so that the blind can hear the person.

I heard the word internet recently in that the network could be the internet, telnet, or any network medium including cordless or computers connected by cords. The network notion of any type of network is true also for the patient records idea, and we could use cordless phone in that the portable unit could be a cordless phone with maybe a screen for viewing the text or the patient records could appear on the phone. So the translation or speech to text conversion would be on the server and provided via the world wide web or

AUG5

internet, etc. The text could be edited in the network as at the server location. The use of servers is how the patient record idea could work as well. The records would be stored on the server so that they could be ready for whomever needs them and for easy replacement with updated records. So, you would have a speaker, a speech to text or vice versa software, a network (servers), the world wide web, and the speech to text could be edited or translated in the network to be received by a different party at a different location or on the same computer unit. I suppose the initial translation or speech to text conversion can be on the computer of the speaker so that the translation or editing in the network is of the text file to be received by the other party or by the same party. But the translation and editing should be thought in the network. Also, the speech perhaps can be translated to a machine language for the speaker to control a machine that is connected to the network. Specifically, this idea is a communications method over a network involving creating a speech to text conversion or a file at one location and transmitting the translation even as a different language to a person at a computer or a machine at a different location, including cordlessly if the person has a cordless phone with a display or a personal computer. Also, the new information could be received at the same location as the input especially if translation at the same location or scene is needed.

August 06

I am a moron; I went to bed and woke up today Tuesday and read this entry and made corrections, but I have spent too much time on this idea last night when I should have been studying. I am not going to do anything else but study for the exam until the exam is over. I am not going to edit my entries any more since it is too time consuming. I do not see the point.

AUG31

August 31, 1996

I took the MCAT and I am certain to have doen terribly on it. I am living with Nevine and Guy now. I have brought my computer with me since I cannot use Guy's. They gave me a birthday party last night. God bless Danielle and Adel. I am embarrassed by such things, I do not like parties for me. I am only going to keep entries to the point relatde to the two ideas I have been working-on. I lookde at the voice translation idea. I think it is a good idea. It can be used for many things, as for example sports events. Soccer is an interantional sport. You coul have a soccer event in one country and it transmitted to a different country. The person in the diffeent country could read what is happening on his cmputer. The text of the event could be transmitde to him in english or maybe in any language. For example, I am certain that when the World Cup was in the US, many people abroad perhaps would not have minded reading the events of a game on their screen. The commentator would provide live commentary as the game is occuring that would be read by the fan on his personal computer. Related to the patient record idea, I am concerned that any person could access the records. So, likely the user would have to be a registered medical person with a specific personal ID they input firstly before reviewing the record. And I guess if the barcode idea is not used, a specific number from a card or similar can be typed in for the person injured. Also, the servers with the records could be regionally distributed to allow for faster access of records. SO, you could have the compelte record sent possibly including X-rays or just information needed by the person at the scene. SO, a global warehousing of sorts for fast access would be created.

SEP15

September 15, 1996

I like working doing research. Certain people are weird. Again I am not going to spend too much time on this record.

I guess for the voice translation idea you could have news events or emergency informatino transalted to be seen on the computer.

For the patient records, i am concerned about privacy. I suppose that if the patient agress to wear or carry an ID, they do nto mind people accesing their record. I was simply thinking of Arthur Ashe and his records having been accessed.

OCT15

October 15, 1996

Regarding patient privacy the patient could restrict access to certain parts of the record that may not be needed in emergencies, but the doctor or a specific doctor could overwrite the restriction. The voice to text thing idea could be used in courtrooms so that reporters could have immediate access on their computers.

The person that I have to share a lab with is really bizarre. He was cutting his nails at the computer in the lab. I am not going to spend time wringing about such things here. I think how I am keeping this record is good. I will make an effort to comment on the ideas every month. If I think it is good and I have answered all the questions, problems, etc, maybe I will go to a patent attorney.



NOV9

Novemebr 9, 1996

The medical information that is updated to the servers could be sent directly to the next person that needs them, the information being sent automatically with the sending of it from the scene.

The system coul db e used for presecrptions, sending information directly to pharmacies.

NOV12

November 12, 1996

I was thinking bout the voice idea. You could probably use them in operas or theatres also. I do not understand what operas are saying. The idea could help.

NOV16

November 16, 1996

For the opera idea, the screaming may make translation difficult. So, I do not know if it is a good idea. But you could use it for a foreign film or play.

I am growing tired of working with the people in the lab.

DEC7

December 7, 1996

I may have to move-in with Nadine because she is insisting. But I want to find my own place.

I am thinking about the ideas. The patient record idea could be incorporated with insurance companies. They could receive insurance related informatino as soon as a person is hurt. I do not know if such an idea is valuable to insurers to have the information fast. Also, I think the person injured restricing access is a good idea.

I may go look for a speach to text program in the store. I do not know if I will have time since I have a ton of work to do

in the lab. Also, I may want to start to learn how to create a program. I think the sports idea is really good.

Sports is so popular. You could possibly have the text received on your cordless phone or personal computer that is cordless and you carry around.

DEC14

December 14, 1996

I am looking forward to Christmas. I do not know if soccer games will be that enjoyable in text.

I am guesing that perhaps the slower games as baseball or soccer may be best since they involve less commentary.

The games are slower and perhaps the system I am describing could work better with them.

Perhaps even in such slow games statistics could be associatde with the commentary. You could receive on your portable computer information about each player with the live commentary.

I think the patient record idea is very good. Just gettin rid of all the paper records that probably take up so much space may be desired.

JAN13

January 13, 1997

My dad was not happy I accepted this job since it pays poorly. I am beginning to think he was right.  
Maybe a person could save their patient record on their ID card or in their bracelet to be immediately available.  
I guess it would just involve a chip.  
The voice translation or speech to text idea could be used like a translation device that you always carry with you, especially if you are on holiday in a separate country.

FEB8

February 8, 1997

Valentine's Day is approaching. The girls in the lab are strange. I am beginning to think that perhaps it is me that is strange.

I am sleeping too much. Nadine is too nice.

I was thinking that the patient record idea may not be possible now since I am guessing that medical

people would have to agree to use it and the technology may not be ready. I do not know.

The same idea could be for the voice translation idea. I do not know the quality of the software

and if it can be placed on a network. The cost for just creating the network likely would be outrageous.

MAR4

March 4, 1997

I am beginning to hate what I am doing. The guy with whom I am sharing the lab is not normal.

Other people tell me such thoughts as well. I am beginning to look to what to do next year.

I do not have the money to pursue the ideas since my Dad was right in that my pay is too low.

The main obstacle for the patient record idea is that physicians would have to adopt the new technology,

and they are always hwsitant to use new technology.

The obtacle for the voice to text idea is tha I do not know if the technology is good enough for use by people that need it

or could use it. I would guess that with so many accents, translatino software is far from perfect.

I think then I will have to look for opportunities to continue schooling unless I decide to stay in the lab.



APR3

April 03, 1997

I would not mind finding a part-time job after work, but the contract I signed indicated that I am not allowed to do so. So, I am stuck working all of my hours in the lab.

I am nervous about telling people about my ideas since I am afraid they will steal them.

So, I keep them to myself. I am starting to learn HTML so that I can learn to build webpages for the medical idea.

Also, I could use the HTML for the speech idea, but I may have to learn a different language.

So, all I do now is work and study various things and consider what I am going to do next.

Maybe the editign for the speech idea could be a manual edit by a human in the network, which could improve the system.

I do nto know if emergency persons at the scene will want to use the patient record idea. It would have to make their jobs easier and not be difficult to use.

MAY3

May 03, 1997

I am part of a softball team named the weasels. The distraction is good, and the guys are good people.

I was thinking today that background noise would be a problem with the voice to text idea.

So, I do not know if you could use it with a good amount of surround sound. I am uncertain which

idea is better. I am guessing the records idea. A physician could have a record on his personal computer

for a neighbor he found lying on the street. People globally could be helped. The speech to text idea could

help people globally also, especialy1 the deaf.

MAY24.

May 24, 1997

I am sleeping too much. I have to get my act together, but the lab tires me. I do not know if it is the stress of working with the guy in the lab. I am not particularly happy in my life.

I may simply need a girlfriend or more friends generally, but I am not long enough out of the lab to go socialize.

I am considering going to graduate school. I would like to study neuroscience. I must not spend too much time on such subjects. I must stick to the ideas.

HTML is pretty easy. I may try to learn a different language. So, the medical records could be accessed through a webpage on the internet.

The webpage could be a simple HTML site.

I do not know how the voice to text site could work. I guess it could be a website as well on the internet, but I do not know if simple html will do it. I have to think about it.

JUN15

June 15, 1997

I cannot sleep. Maybe I should get a check-up and talk about the sleep issue. I wonder where my patient record is kept. If I was ever injured or needed help, where would it be found.

Or if I could not speak english and I were injured. So, both technologies could be useful and could be used together.

So, the medical idea could be at a website and the speech idea could be automatically on the computer unit to be used through the network capability of the unit.

I think it is logical, the speech is focused on the specific user and machine and the record can be accessed from any machine.

I am guessing this route may be best since I do not know if the machine or software would have to become adjusted to the person's voice and accent.

JUL1397

July 13, 1997

I do not know why I am keeping this journal. I do not know if I can ever use the ideas even though they are good. I have other ideas that are not mentioned. I think one problem that I want to avoid is to have too many ideas simultaneously and be distracted. I want to stick with ideas and get them done rather than having nothing done. The medical patient record is good especially if it can allow for immediate sending of information to a pharmacy since doctor's handwriting is terrible. To prevent errors at the pharmacy, the typed in request could be sent with the sending of the updated record to the server. The speech to text idea likely would not work with a fast sport like basketball. I guess it could work but a slower game could allow for manual editing if needed.

AUG997

August 09, 1997

I am going to be leaving the lab and going to Cambridge next year. I likely will take the computer since I am uncertain if I will have a computer in my room.

One notion about the speak to text idea is that the language can be translated firstly to a universal language

before being translated to the required language,. Teh universal language can be more easily handled by the speech softwae.

Or perhaps if we adopt an overall universal language, people around the world could speak and learn it. But I gfuess that is what english is or is becoming.

The patient records idea could start off in between partnering hospitals. Perhaps hospitals could create colalboratinos or be owned by a single company. So, it would be easier to at least implement

a network or allow for a network to exist between the hospitals for the sharing of records, which would be helpful

to the perosn with the personal computer since perhaps they could simply connect to a specific hospital network for the record especially if the sick person is not carrying an ID and only has person information as name and Social Security Number.

AUG2397

August 23, 1997

I have mixed feeling about leaving NIH. I have no mentioned the name of the weird guy

since I do not want to remember him, but likely I will never forget him. One event that I will likely always

remember is that he threw-out one of my samples that I had on the GC machine for analysis.

I do not what happened as a result since I know he had a meeting with the lab chief. I will be

starting graduate studies in October.

I have been reading that insurers have legacy computer systems so that I do not know how difficult the use of the medical system will be with insurers.

I do not know how easy the speech to text system could work over all. So many accents exist that it may not work or

may not be a system for the general population. It may be for specific uses by specific people as sports

commentators. I am really taken by the sports idea. And the notion of a play or film being translated would be great for the deaf.

SEP2097

September 20, 1997

I am going to miss my family. I am not happy that my sister and I are not particularly close.

I am not happy they live in the middle of nowhere. I wish they were closer to a large city or an easier place to reach.

But the notion of being in the middle of nowhere is an issue for the medical records. Could they

be delivered to the middle of nowhere? I believe so if you use satellites, unless you are already indoors

with a hardwired network of computers.

The speech to text system could be used indoors, but if you were to go to a theatre, I suppose you would have to have a way to connect to the network

or Internet on your personal computer. Perhaps jacks could be near seats or some sort of relay system could be in buildings that may connect to a

satellite system on the roof.



OCT1997

October 19, 1997

I was at one point thinking of myself as an idiot for having brought this computer here. But the computers I need are so far away that having a computer in the room even if it is a simple one is convenient. I am not happy that my supervisor is so busy with affairs and we do not have a project on which I should be working. I told him that I should have a project as soon as possible, but he is busy with his own affairs. There are many things that I want to do and I hope I can do them here. I hope I can learn more computer languages. I hope my neuroscience studies progress well, maybe I can write a book like I have always wanted. The speech to text system could best be used in a place like Europe where many languages are existing. The medical records idea can be used anywhere. For example, if you are traveling in a foreign country and are injured, hospital people could read your records through the network. They would know who you are.

NOV1697

November 16, 1997

I am not pleased with how my studies are progressing. I was hoping to be working on a project by now.

I am distracted by wanting to do other things. I need to speak to my supervisor again. I keep thinking

of why I do not simply go and do other things especiall since the college keeps bothering me about tuition.

They seem more interested in my paying bills than my academic growth.

I know a Spanish woman with whom I cannot communicate since she does nto speak english. If my system were in place,

I could use it. I honestyl do not know what I am doing with these comments every once and a while. I should do better research

about the ideas if I am serious about them. Can the patient record idea be implemented at least

between partnering hospitals? Can the speech to text system be creatde involving the Internet?

I believe the patient record idea can work between hospitals. I do nto know if the speech technology is good enough to

allow for the speech to text system now. I may start to learn th programming language C if I have time

to better understand if I can build or improve a speech program.

DEC1397

December 13, 1997

I could not sleep well last night. The housekeeper keeps bothering me about not putting sheets on my bed, but I do not like to use sheets and I wish no one would clean my room. The housekeeper is very rude. I may need to speak to someone about needing more privacy. I am looking forward to Christamas as always. My sister always is in a bad mood on Christmas Day. I hope this year will be different. Regarding the patient record system, the technology is unique in that it allows for immediate acces to the records, it is useful from the field or by emergency people away from the hospital, when you send the inputed information the record is updated automatically, and the record is saved for use by a different party. The speech to text system is similar in that perhaps the network or servers in the network could remember key words or phrases since people use the same phrases often to allow for more accurate translation of words to text or the user could train the system to identify specific words and to manually correct the words so that they are always translated correctly. The words would be saved so that for example sports broadcaster could talk and not worry that a word is translated improperly. Also, the sportscaster could possibly type in words and the network could translate them for the fans to receive in perhaps a different language.

JAN1198

January 11, 1998

I do not know if I want to return since I feel constrained there and limited. I have

so much that I want to do.

Related to security for the medical records idea, multiple or a plurality of security codes could exist. Perhaps

the codes could be in a hierarchy format with more codes more valuable than others or certain codes having to be inputted firstly.

The combination of codes could have to be inputted before access to a record would be allowed.

Also, the database could have a hierarchy of sorts to allow for the proper storing of information in that perhaps with one code

certain information can be accessed, but all the codes would be needed to access the most sensitive of information.

The speech to text system could also have security codes in that the initial user would input his password and his specific set of

words or vocabulary with pronunciations, etc would appear so that it would be specific for his use. The system thus can be used by multiple people even

from the same computer and would improve the software in the system in that it would be more reliable.

FEB898

February 08, 1998

I may change labs. I am not satisfied with how I am progressig with my supervisor. I am going to investigate the matter. I do not know why I just do not get a job and work

on the ideas if I am serious about them instead of putting it off.

Related to the patient record idea, the network allows for the idea that not all the information for the patient needs

to be on the same server. The access codes would automatically network the information on different servers adn send them to the party that

needs them. So, you could have X-rays on one server, and blood work on another, but the input of the patients id could bring them all together

and send it to the requester wherever globally.

The same could be true for the sporting event. The broadcaster may present games from different venues. So, his speech files could be saved at different

venue servers. So, input of his password would allow for all vocabulary recordings or specific statistics from games

to be networked so that he could use them or so that a fan could even review past games from the broadcaster.

MAR898

March 08, 1998

I am learning C and spending more time learning other matters than studying neuroscience since I cannot progress without a specific project. My supervisor has me working on a project that is not what I expected and I am no longer interested. I do not think C can work for the speech to text system. Also, since this computer is not on the internet, I am having to use a computer at the college for compiling. I could use HTML for the website designs for the speech and medical idea, but I am looking to see if C could help me with the speech to text sending over the internet or for the improvement of speech to text programs. C might not be the right language. I might ask or do some studying.

MAR2898

March 28, 1998

My supervisor has indicated to me that he does not feel that my mind is right for research. I am not certain what he meant but he gave me some sort of superiority of the researcher mind speech and I have no idea why he needed to be so rude. I think he feels offended by me, but I simply need to work in a lab that will allow me to work on a project consistently. Maybe he is right, maybe my mind is elsewhere, but I feel restricted here. I have many projects on which I want to work and I cannot do them here. The medical records idea would mainly be stalled by doctors not wanting to use the technology. The speech to text system would be stalled by bad conversions. But it could be simple conversions as for sporting events as with Jones or number 5 dribbles and scores. Soccer is popular here and I can imagine the usefulness of the technology across borders for the sending of sport broadcasts in text. I do not know why anyone would prefer a paper record to a networked global server of electronic records that could be accessed quickly and easily from any location even with a portable, cordless computer.

APR2698

April 26, 1998

I hate that I have to travel so far to the college to have dinner. I perhaps should purchase food.

I miss my family, I hate the idea that I have a washing machien but no dryer, and I do not know

if I am the perons that shoudl be held responsible for matters not progressing well.

I am working hard, but I do not understand the lack of progression. I cannot seem to focues as the two ideas are always in mind apart frmo a book idea dn my desire to learn how to write programs.

I am thinking of volunteering at a hospital here, but I do nto have time and should find

a paying job since I need pocket money. I know that ambulance services are more advanced in France form what I have heard, but

services in the UK seem the same as the US. I did a search on the internet and apparently patient privacy is a significant issue, though

my specific global system is not in the searches I undertook. It is novel.

Also, I think my speech to text system could be extremely useful in the UK since they are so close to

many countries with different languages.



MAY2598

May 25, 1998

I am in a different lab and the work is okay now that I have a specific project. My previous supervisor spoke poorly of me to the new guy.

So, he is not always so open with me and I do not know if he is serious about giving me a chance.

All I have ever wanted is a chance. I do not know why matters did not progress before, but I am looking ahead.

The World Cup is this year. I do not have the time to build the speech to text system that I was envisioning to try to market it to people running the show.

Besides I think that such a system is best created with Java, but I am only now getting a hang of C.

Website design using html is pretty easy. An interface for the medical worker to input the access code for the record is not difficult to build. The

database incorporation and the networking of the servers with the database is the difficulty. I do not have the time or money and I do not

want to ruin the opportunity I have in the new lab by not being focused.

JUN2598

June 25, 1998

I am not happy here. My supervisor is not giving me a chance. I think it is me, I just have too many other things that I rather be doing.  
I am working hard and making progress, but his expectations according to a colleague are not normal  
even to expect them of a person with much more experience in the field than me.  
I was thinking that the medical records need not be complete records since I rememebr some records being inches thick.  
They could be only the vital information.  
The same could be true with the speech to text system. Compelte sentences perhaps need not be used. Main words without certain unnecessary words that are not needed for understanding the sentence can be presented rather than every word that may slow the system or cause errors.

JUL2598

July 25, 1998

I am growing my hair long. I may get it cut though since the Summer is hot.  
I am trying to understand if I can set-up a server here so that when I go home, I  
can communicate with it  
for the medical idea and for the speech to text over the internet idea. I could  
practice by saving pseudo-medical files  
or send speech to text with any translation engine coupled to the server. I will  
have to consider it more.

AUG2398

August 23, 1998

My birthday is next week and it will be for the first time I believe in my entire life that I will be alone for my birthday. Since being here my grandmother died, I am being continuously put-down by my supervisor, I am hungry, lack pocket money, and the college seems to only want me to pay tuition and does not seem to care about my advances academically. I am beginning to consider leaving since I feel restricted and cannot accomplish all of my goals here. I am considering going home, getting a job, making some money, and working on the two ideas I have been working on. Then I can start creating new ideas. I was thinking today that the global medical record system could be used for epidemiology by countries that would need it more for keeping an eye on the spread of disease or to create new records for people without them previously. Maybe the speech to text system could be used for places like the UN to eliminate the translator roles. But it is a good idea for courts since it could get rid of the need for stenographers or could help them do a better or faster job.

SEP1998

September 19, 1998

I have stopped coding in C since I do not see much of a point and the bike ride to the computers takes too long.

I do not have the time. I have basically stopped practicing tricks on the BMX bike I purchased. I do not have the time.

I am disappointed nothing is not working well here. I cannot blame myself because I am working and have always worked extremely hard. I was thinking that I am distracted with other thoughts., but I have always been working on multiple subjects.

I simply do not know what is wrong. I accept full responsibility, but my colleagues tell me that I am receiving no support

from my supervisor and that it is far from my fault.

I wonder if the global system of records due to the server distribution could lead to a standard medical record for everyone in the world or at least in one country.

It would be good since it could more easily be stored and communicated since it would be familiar to all that saw it.

I do not think that the speech to text system will lead to one language, english is as close as a universal language as can be. I am going to investigate if I can write

a speech to text program. I am curious how to do it.

OCT1898

October 18, 1998

I wonder how many people in the world do not have a medical record. I wonder if my system could reduce the cost for insurance since insurers will save money by knowing sooner about injuries.

I wonder if my speech system could make communications easier between people of different countries. I am guessing that expressions in one country will not translate well or be understood in the same way in a different country so that a person could be offended by a comment that is to be a compliment.

I have decided to leave in December and not return. I am suffering from a stomach virus or maybe food poisoning

that is keeping me from the lab. I told them about it, and no one has come to check on me since. I am not so bad as to need to go to the hospital, but I cannot hold down food or I have diarrhea.

NOV1598

November 15, 1998

I am considering going on a holiday before I leave to at least have had some fun. I do not know if

different emergency agencies need different records. I am uncertain if a standard exists even in the same type of emergency groups as firemen, ambulance people, etc nationally or internationally. Standard records would allow for easier implementation of the system.

I do not know what sort of ID would be used. Perhaps a letter and number combination.

I do not know what languages are not covered by speech to text systems. I am guessing not every language is in the software and I am guessing that some pick-up certain accents better than others. So, I hope that I will not have to develop my own software for every region with different accents. The training of the system and saving the preferences per user or something similar would be best.

DEC1598

December 15, 1998

I am giving away a large number of items since I need to reduce the amount that I carry back. I am going to miss my friends. When I return I will likely try to learn computer languages, maybe retake the MCAT, and maybe volunteer.

I did a search for personal portable computers and I do not think based on what I saw that they could handle the communications of medical records.

Also, I do not know where the servers for the speech to text system would be housed.

I do not know if I would have to have an office in each area where I want the servers.

Since it is internet based, I guess not, the servers will already be in place. I simply have to make certain to implement the software. The medical record system servers and databases

could exist at participating hospitals or treatment centers. In other words, I could implement the connection software or put in place a new server at a hospital for connectivity.



JAN1099

January 10, 1999

I am depressed. I am uncertain what I am going to do. I am planning to retake the MCAT in April.

Also, I am going to help my Dad try to lose weight. I am being tough on him to try to encourage him.

This computer has served me well. I have used it for years. But for the global medical servers, you would need the

best portable computers that could receive information and send new information quickly. If it is too slow, it will be no good.

The speech to text system would be easier since you do not need likely as much memory, but speed would still be an issue since a user would not want to wait too long for the translation from the internet.

FEB1099

February 10, 1999

I am unmotivated to study for the MCAT. I am beginning to think I made a mistake in leaving and coming back home.

I do not have time to learn to program with other languages. My parents are kind to allow me to be here until I work matters out.

I remember that the computer that was used in the hospital where I volunteered was a simple 486. So, the receiving computer or hospital computer in the need not be the top of the line. But cordless communications is likely more consuming on computer resources and I cannot waste time trying to put the medical system in place now.

I will have to work on it occasionally when I have a moment, but it seems that being through the internet would be the easiest route.

I do not see how the speech to text system could exist away from the internet.

MAR1099

March 10, 1999

My parents are relaxed and happy just being together. They are happy being simple. I think I am too complicated. I was looking at the phone in the car and it is far too primitive to receive medical information. But if the screen were increased I think a barcode reader or card scanner could be implaced and it could at least be used for simple or most relevant inforamtion. But for the patient record system or for the speech to text system, you would need the interent access in the car. Sending information from a fast moving emergency vehicle maybe difficult. I think the speech to text system may be the easest to imlemetn and is what I will likely do first since not as many hurdles exist. I do nto know if I can begin to work on it here since the area is too rural.

APR1099

April 10, 1999

I am not ready for the MCAT. I do not know if I want to go to medical school. I am trying to communicate with people in the Boston area that I contacted when I was in Cambridge. I am looking to see if I can work in a lab there. Boston would be a good area to try-out the medical record idea since many hospitals exist there especailly in groups or partnerships. Also, the place is multi-national so that the speech system could be tried as well. But I have to have an okay salary since the cost seems may be or could eb high. I perhaps could try to learn to code more languages in the Boston area sicne I hear numerous schools are there. So, maybe I could build a team to stat off with at least the speech idea.

MAY999

May 09, 1999

Mom is a good cook and I have gained weight since returning. I may need to obtain a salary soon. I do not want to stay here.

I cannot implement my ideas here. The area is too rural and cordless communications could require satellite communications, which I cannot do.

I would not know with whom to communicate. Unless you need the internet or networking you can use any computer. Internet and networking require memory. The translation over the network is clever since it resolves what I am experiencing now.

You do not need the software on your computer. You could use less powerful computers to achieve the translation.

The medical records idea is not as simple since you need to receive the large records. The speech idea should be first done since it seems simpler.

JUN999

June 09, 1999

I have decided that I will move to Boston. I am communicating with a researcher at Children's Hospital to join his lab. But I will not leave until July or later in the Summer.

I will take this computer but I will maybe have to buy a portable computer to begin building the system on a larger scale. The same portable computer could be used for the medical record idea and the speech. But to do so, I would have to find a top notch portable computer since the patient record idea would take-up a good deal of memory. Also, I will have to better investigate speech to text software. I like this computer as my personal computer. I can use it for the briefest thoughts whenever I want.

JUL999

July 9, 1999

I am leaving next week for Boston. I found a place to stay in a place called Revere and the guy I spoke to seems nice. But he says he has to meet me first. So, it is not definite yet. I do not think my parents are happy since they were hoping I would stay longer. I am not happy with my Dad that he eats so much. I wish I could have helped him lose weight. I would not mind discussing the ideas with people but I am afraid they would steal them. But I do not know anyone in this area that could discuss them with me. I think I will start the medical records system maybe with my record or what I remember off the top of my head. So, it will be a system only with necessary information for emergencies firstly. I did a search on the internet or voice to speech and it is an extremely difficult arena with people working on it and not having always much success due to accents and just the different ways people pronounce words.

AUG899

August 8, 1999

I like living in Revere and the people on my floor are okay people. I do not like the idea that the beach is so close but the water is too cold for swimming and I hear it is polluted. The room is hot since I do not have air conditioning. I hope it does not damage the computer, but this thing has lasted. I am not too worried.

I found a community center where I can learn more computing. I maybe could speak to people there about the speech to text and patient records systems involving the internet. They seem to give away computers or sell them cheaply. So, I am going to try to obtain a computer that I can use as a server. I need to obtain internet access for the room.

I do not know of a provider in this area. I will check with the neighbors. I will begin to study Java to see if I can use it for the speech to text system.



SEP899

September 08, 1999

The subway system is great. I do not need a car and it is not expensive. I am likely going to start working at MIT soon. I do not like that the Children's Hospital opportunity did not work-out. I feel they were dishonest in having offered me a chance and then later tell me it was no longer available.

I think what has happened is for the best since I can more easily learn to obtain advice about my systems. The speech to text system likely will have to be per user since a generic system likely

will not work as well. So, using a password that saves preferences would be the best route. The

medical records system will involve much more bureaucracy since hospital administrators would have to vote

to implement it and no one seems interested in getting rid of the paper record. I may

be wrong since I have not discussed the idea fully. I have always been open with the idea. Simply, I have not given every detail since I want to work on it and need more time to fully develop it.

OCT899

October 8, 1999

I like Revere. I har bad things about it, but I like where I live since it is close to everything.

I do not have much time to work on the computing languages since i am spending most of my time reading research papers. I have read some computer science papers on speech to text systems and they talk about hidden Markov Models and the various libraries involved in a decent program.

I may one day liek to try to write one. The medical records system is too tough. I do not know how to get the old records in paper to electronic forms.

Maybe I could scan them and save them as a pictures of somesort. I think that is the best route and then the new informatino can be seprate forms

that are simply added to the scanned informatino. They would be organized with dates. So, the newer informatino woudl simply be additions to the record. The new forms

wuold be on the medical persons personal computer for completion and sending to the server.

11899

November 8, 1999

I did not realize that MIT was such a large computer science school. I can find all the information I need in the engineering library.

I am pretty busy in the lab. I want the opportunity to work.

The computer in the lab is an Apple that I am repairing. But it raises the issue of the medical system and the speech system working on different computer platforms. I guess it would not matter depending on the coding and how the forms can be accessed. But I cannot

make the systems only useable for one type of operating system or types of computers.

For example, overseas the speech to text system may not work on their specific computers if it is not

what is required so the text over the internet would not be received.

DEC899

December 8, 1999

I am learning a good deal in the lab, but I wish we could move forward with a project. I am scared that we will not move forward as what happened in my last experience. I am going to need more money to do the speech to text idea. I am writing Java script, but I have noticed that C++ likely is the best language for a speech to text program.

Hopefully I will have the time to learn it. The medical records idea involves legal issues related to patient privacy. But I am guessing that if a person is carrying the ID, they are not bothered that the appropriate parties that will also need IDs to access the system will see their information especially if they can restrict portions of it.

JAN800

January 8, 2000

I should not have left before New Year's. I should have stayed at home to celebrate it with the family since being here made no difference. I am going to try to take at least a class while I am here. I might sit-in on programming classes. I am getting somewhat tired of keeping even these simple records since I do not see the point. Medical images take up a good amount of memory and I would imagine would slow down a computer. So, processing speed has to increase significantly for a portable computer to be useful. Otherwise, why would a medical person want to use a system that takes endless time to provide information. The speech to text system is easier since it can send simple words or phrases, text, not large pictures or files.

MAR1101

March 11, 2001

I am going to build a team of people to work on the medical idea at least. I think that it could be more financially advantageous since a big problem exists and a need for the medical records on the network or a global server for medical histories seems to be more in need and wanted than the speech to text system. I cannot find too many groups that would pay for the speech to text system in the courts, where I see it most of interest. The skeptics indicate that I could never get the courts or legal groups to decide on what computers should be allowed in the courts and people have warned that client privacy rights could be violated. I do not see the client rights matter an issue because the judge would decide if the computer system could be used in a trial, like with Court TV.

APR1101

April 11, 2001

I am interviewing people for the team and I am meetnig good people. I am also bringing on people as advisors.

I am writing a business plan for the medical histories on a global server idea that is time consuming. The speech to text work is always in the works but I am looking for other uses besides the courts. I will see if sports reporting or broadcasting would be interested. I have picked-up some emergency room forms that I will try to convert to digital form. They could be the base for the forms we use on the system.

MAY1101

May 11, 2001

I am becoming annoyed that I keep taking records on this computer. I do nto have the time or the energy anymore. Sometimes after working on the medical histories idea I am so tired that I cannot sleep. I think when I go home over the SUMmer I will take this computer to get it out of my room in MA to give me more space. Sports broadcasters do not seem to like technology. They do not like computers or possibly having to learn new tools according to the student sports reporter I asked. I am not certan what kind of handheld unit woud be good to use for the medical records idea. what is on the market now is not that good anyway in terms of presentation of informatino and speed.